**Development Institute of Technical Education and Skill (DITES)**

**By Ernest, Jubair, Mackenzie and Tolu**

Our overarching goal is to transform the future workforce through technical education and skills development of our youth. In order to accomplish this goal, we aim to produce programs capable of providing technical education and skills development, spread the practice of proper standards, allowing for proper training of students and staff. Some of the services we plan on using to make this a reality include, but are not limited to; Exchange Mail Server Integration, Computer Network equipped with Student and Staff Accounts with End to End Connectivity, Personalized Storage Segmentation, VPN, as well as easy and secure access to all services listed. We plan to implement this over the next week and a half by providing a solid network structure/scheme and using that base to add services and features on top.

**Full list of Services we plan to Provide:**

Local Network Access

Access to Internet (NAT)

DHCP and DNS services

Network Segmentation through VLANS

Etherchannel Configuration for Student Network to Increase Bandwidth

Router Protocol Authentication

Switch and Router Security (Portfast, BPDU Guard, MAC Filtering and ACL Services)

Virtual Gateway for Redundancy

Monitoring

School Web Site

School Portal for Uploading and Accessing Results

Hybrid Deployment of Exchange Server

Server Administration

Appropriate Permissions and Restrictions

WDS for easy deployment of Resources

Organizational Structure in ADDS

Storage Pool for Files

Remote access through VPN

Outlook Accounts for all Students and Staff